

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	(("6383047") or ("6002206")).PN.	USPAT; USOCR	OR	OFF	2004/08/16 11:54
S2	14	(US-5674100-\$ or US-6383047-\$ or US-6113448-\$ or US-6416374-\$ or US-6213834-\$ or US-5563644-\$ or US-6555957-\$ or US-6538368-\$ or US-5749763-\$ or US-4093562-\$ or US-5470265-\$ or US-3611077-\$ or US-6002206-\$).did. or (US-20020081931-\$).did.	US-PGPUB; USPAT	OR	OFF	2004/08/16 13:48
S3	11	S2 and heating	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2004/08/16 13:48
S4	176	(((((313/493,495,496,497,310,311,346.r) or (445/6,24,49,50,51)).CCLS.) and (polymer resin plastic)) and ((electron adj emitter) or (emit\$3 adj (source device)))) and (conduct\$3 resist\$3)) and heat\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/05/25 15:29
S5	0	(((((313/493,495,496,497,310,311,346.r) or (445/6,24,49,50,51)).CCLS.) and (polymer resin plastic)) and ((electron adj emitter) or (emit\$3 adj (source device)))) and (conduct\$3 resist\$3)) same heat\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2004/08/16 14:29
S6	9	(("6169356") or ("6179678") or ("6184610") or ("6221426") or ("6246168")).PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	OFF	2006/05/25 14:03
S7	1616	(445/6,24).ccls.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/17 14:58
S8	211	((445/6,24).ccls.) and polymer	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/17 15:05
S9	0	(((445/6,24).ccls.) and polymer) and (polymer same (energiz\$4 near4 forming))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/17 16:01
S10	0	(((445/6,24).ccls.) and polymer) and (polymer same energiz\$4 near4 forming))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/17 16:26

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S11	1	(((445/6,24).ccls.) and polymer) and (polymer same energiz\$4)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/17 15:03
S12	4	("5066883"   "5591061"   "5622634"   "6060113").PN.	USPAT	OR	ON	2003/03/17 15:12
S13	3	("5591061"   "5674100"   "5986389").PN.	USPAT	OR	ON	2003/03/17 15:40
S14	2	("5674100").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	OFF	2003/03/17 16:15
S15	1	(((445/6,24).ccls.) and polymer) and (polymer same energiz\$5 near4 forming)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/17 16:26
S16	24	(((445/6,24).ccls.) and polymer) and (polymer and energiz\$5)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 09:44
S17	2	("6383047").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	OFF	2003/03/19 09:16
S18	1618	((445/6,24).ccls.)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 09:44
S19	304	(((445/6,24).ccls.)) and (polymer plastic)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 09:48
S20	211	(((445/6,24).ccls.)) and (polymer)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 09:46
S21	85	(((445/6,24).ccls.) and polymer) and (electron same emitting)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 09:46
S22	25	(((445/6,24).ccls.) and polymer) and activation	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 09:46

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S23	15	(polymer same (energiz\$4 near4 forming))	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 09:47	
S24	119	(((445/6,24).ccls.) and (polymer)) not (((445/6,24).ccls.) and polymer) and (electron same emitting)) (((445/6,24).ccls.) and polymer) and activation) ((polymer same (energiz\$4 near4 forming)))	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 09:49	
S25	195	(((445/6,24).ccls.) and (polymer plastic) and (heat\$3 pyrolyzing))	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 09:49	
S26	140	(((445/6,24).ccls.) and (polymer plastic) and (heat\$3 pyrolyzing)) not (((445/6,24).ccls.) and polymer) and (electron same emitting)) (((445/6,24).ccls.) and polymer) and activation) ((polymer same (energiz\$4 near4 forming)))	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 09:53	
S27	72	((((445/6,24).ccls.) and (polymer plastic) and (heat\$3 pyrolyzing)) not (((445/6,24).ccls.) and polymer) and (electron same emitting)) (((445/6,24).ccls.) and polymer) and activation) ((polymer same (energiz\$4 near4 forming)))) and electron	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 10:43	
S28	2	(((445/6,24).ccls.) and (pyrolytic adj polymer))	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 10:47	
S29	2	(((445/6,24).ccls.) and (pyrolytic near3 polymer))	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 10:47	
S30	2	(((445/6,24).ccls.) and (pyrolytic with polymer))	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 10:47	
S31	5	(((445/6,24).ccls.) and (pyrolytic and polymer))	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/19 10:47	
S32	0	"6383047".URPN.	USPAT	OR	ON	2003/03/19 13:17
S33	3	("5591061"   "5674100"   "5986389").PN.	USPAT	OR	ON	2003/03/19 13:17

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S34	3	(("6383047") or ("5674100") or ("6213834")).PN.	USPAT; USOCR	OR	OFF	2003/03/19 16:41
S35	4231	((313/493,495,496,497,310,311,346.r) or (445/49,50,51)).CCLS.	USPAT; USOCR	OR	OFF	2003/03/19 16:41
S36	634	(((313/493,495,496,497,310,311,346.r) or (445/49,50,51)).CCLS.) and (polymer resin plastic)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 16:42
S37	154	(((313/493,495,496,497,310,311,346.r) or (445/49,50,51)).CCLS.) and (polymer resin plastic) and ((electron adj emitter) or (emit\$3 adj (source device)))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 16:43
S38	147	(((313/493,495,496,497,310,311,346.r) or (445/49,50,51)).CCLS.) and (polymer resin plastic) and ((electron adj emitter) or (emit\$3 adj (source device))) and (conductive resist\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 16:44
S39	145	(((313/493,495,496,497,310,311,346.r) or (445/49,50,51)).CCLS.) and (polymer resin plastic) and ((electron adj emitter) or (emit\$3 adj (source device))) and (conductive resistance)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 16:44
S40	148	(((313/493,495,496,497,310,311,346.r) or (445/49,50,51)).CCLS.) and (polymer resin plastic) and ((electron adj emitter) or (emit\$3 adj (source device))) and (conduct\$3 resist\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/19 16:45
S41	105	(((313/493,495,496,497,310,311,346.r) or (445/49,50,51)).CCLS.) and (polymer resin plastic) and ((electron adj emitter) or (emit\$3 adj (source device))) and (conduct\$3 resist\$3)) and heat\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2004/08/16 14:28
S42	6	("3278789"   "3663857"   "3735186"   "4093562"   "4325084"   "5023110").PN.	USPAT	OR	ON	2003/03/19 17:33
S43	22	"5023110".URPN.	USPAT	OR	ON	2003/03/19 17:45
S44	5	"5470265".URPN.	USPAT	OR	ON	2003/03/19 17:47
S45	1	"3611077".PN.	USPAT	OR	ON	2003/03/20 09:15
S46	17	"3611077".URPN.	USPAT	OR	ON	2003/03/20 09:15
S47	17	"0660357"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/03/20 09:20

## EAST Search History

S48	2	(("0717428") or ("0660357")).PN.	USPAT; OR USOCR; EPO; DERWENT	OFF	2003/03/20 09:21	
S49	0	ep-0717428-\$ did. ep-0660357-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:21	
S50	0	ep-0717428-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:21	
S51	0	ep-0660357-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:25	
S52	1	jp-06060357-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:27	
S53	0	jp-7290644-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:27	
S54	2	jp-07290644-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:28	
S55	0	jp-08174384 -\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:28	
S56	2	jp-08174384-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:29	
S57	0	jp-80-87347-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:29	
S58	2	jp-08287347-\$ did.	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2003/03/20 09:29	
S59	5	("3611077"   "4632703"   "5220347"   "5541633"   "5563644").PN.	USPAT	OR	ON	2003/03/20 09:33
S60	1	"3611077".PN.	USPAT	OR	ON	2003/03/20 09:45

## EAST Search History

S61	1	"3611077".PN.	USPAT	OR	ON	2003/03/20 09:46
S62	0	("5749763").ccls. or ("5674100").ccls.	USPAT	OR	ON	2003/03/20 10:07
S63	8142	((445/6,24,49,50,51) or (313/493,346r,495,496,497,310,311)).CCLS.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	OFF	2003/09/02 17:44
S64	297	(((445/6,24,49,50,51) or (313/493,346r,495,496,497,310,311)).CCLS.) and (@pd > "20030318")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/09/02 17:44
S65	189	(((445/6,24,49,50,51) or (313/493,346r,495,496,497,310,311)).CCLS.) and (@pd > "20030318")) and (electron same (emitt emitter emitting))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/09/02 17:46
S66	122	(((445/6,24,49,50,51) or (313/493,346r,495,496,497,310,311)).CCLS.) and (@pd > "20030318")) and (electron same (emitt emitter emitting)) and (carbon graphite diamond)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/09/03 09:40
S67	100	((((445/6,24,49,50,51) or (313/493,346r,495,496,497,310,311)).CCLS.) and (@pd > "20030318")) and (electron same (emitt emitter emitting)) and (carbon graphite diamond) and (heat\$3 sinter\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2003/09/03 09:41
S68	1	"3611077".PN.	USPAT	OR	ON	2003/09/03 10:05
S69	2	("6383047").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	OFF	2003/09/03 10:50
S70	2	("5749763").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	OFF	2003/09/03 10:50
S71	13	(US-3611077-\$ or US-6113448-\$ or US-5470265-\$ or US-5749763-\$ or US-5563644-\$ or US-5674100-\$ or US-6383047-\$ or US-6213834-\$ or US-6416374-\$ or US-4093562-\$ or US-6538368-\$ or US-6555957-\$).did. or (US-20020081931-\$).did.	US-PGPUB; USPAT	OR	OFF	2003/09/03 10:55

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S72	2	((US-3611077-\$ or US-6113448-\$ or US-5470265-\$ or US-5749763-\$ or US-5563644-\$ or US-5674100-\$ or US-6383047-\$ or US-6213834-\$ or US-6416374-\$ or US-4093562-\$ or US-6538368-\$ or US-6555957-\$). did. or (US-20020081931-\$).did.) and laser	US-PGPUB; USPAT	OR	OFF	2003/09/03 11:47
S73	7	("4149308"   "4259678"   "4683399"   "5202571"   "5712502"   "5945777"   "6084340").PN.	USPAT	OR	ON	2003/09/03 10:57
S74	2	"6383047"	US-PGPUB; USPAT	OR	OFF	2003/09/03 11:47
S76	3	"2002329459"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/25 14:06
S77	1	("6781667").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/25 14:06
S78	19	("20020081931"   "20030039767"   "20030073371"   "20030160180"   "20030161942"   "20030162464"   "20030162465"   "20030162467"   "5876260"   "6123876"   "6179678"   "6184610"   "6221426"   "6246168"   "6270389"   "6334803"   "6366015"   "6383047"   "6554946").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/25 14:06
S79	6	("2002/0081931").URPN.	USPAT	OR	ON	2006/05/25 15:07
S80	0	method.ti. and electron with (emit\$5 emission ) and carbon with atom\$3 with bond with (anode cathode electrode) same (heat\$3 pyroliz\$4 firing fired baked oven laser) same (energize potential electrify)	USPAT	OR	ON	2006/05/25 15:10
S81	557	method.ti. and electron with (emit\$5 emission ) and (anode cathode electrode) same (heat\$3 pyroliz\$4 firing fired baked oven laser) same (energize potential electrify)	USPAT	OR	ON	2006/06/05 11:54
S82	1	S81 and solid near state with polym\$3	USPAT	OR	ON	2006/05/25 15:11

## EAST Search History

S83	2	"08055563"	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	ON	2006/05/25 15:12	
S84	2	"08055571"	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	ON	2006/05/25 15:13	
S85	1	("5622634").PN.	US-PGPUB; OR USPAT; USOCR	OFF	2006/05/25 15:21	
S86	2	("11233005").PN.	US-PGPUB; OR USPAT; USOCR; JPO; DERWENT	OFF	2006/05/25 15:22	
S87	3	("2002329459").PN.	US-PGPUB; OR USPAT; USOCR; JPO; DERWENT	OFF	2006/05/25 15:22	
S88	21	("5622634").URPN.	USPAT	OR	ON	2006/05/25 15:23
S89	69	(((313/493,495,496,497,310,311, 346.r) or (445/6,24,49,50,51)). CCLS.) and S81	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2006/05/25 15:32	
S90	252	method.ti. and (electro\$conduct\$4 (electron with (emit\$5 emission))) and (anode cathode electrode) same polymer\$2 same (heat\$3 pyroliz\$4 firing fired baked oven laser)	USPAT	OR	ON	2006/05/25 15:31
S91	521	method.ti. and (electro\$conduct\$4 (electron with (emit\$5 emission))) and (anode cathode electrode) same polymer\$2 same (heat\$3 pyroliz\$4 firing fired baked oven laser)	US-PGPUB; OR USPAT	ON	2006/05/25 15:31	
S92	40	(((313/493,495,496,497,310,311, 346.r) or (445/6,24,49,50,51)). CCLS.) and S91	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2006/05/25 15:32	
S93	5	(("3,435,445") or ("5,396,362") or ("5,943,154") or ("6,346,430")).PN.	US-PGPUB; OR USPAT; USOCR	OFF	2006/05/25 15:58	
S94	1	("6383047").PN.	US-PGPUB; OR USPAT; USOCR	OFF	2006/06/05 10:52	

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S95	1	("6781667").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:40
S96	15	("5591061"   "5674100"   "5986389").PN. OR ("6383047").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 11:41
S97	552	electron with (emit\$5 emission) and (anode cathode electrode) same (heat\$3 pyroliz\$4 carbonized firing fired baked oven laser) and ((chemical Covalent Polar Ionic Aromatic ) with bond\$3) and (energize potential electrify)	USPAT	OR	ON	2006/06/05 11:57
S98	1267	electron with (emit\$5 emission) and (anode cathode electrode) same (heat\$3 pyroliz\$4 carbonized firing fired baked oven laser) and ((chemical Covalent Polar Ionic Aromatic ) with bond\$3) and (energize potential electrify)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/05 12:14
S10 2	108	((313/493,495,496,497,310,311, 346.r) or (445/6,24,49,50,51)). CCLS.) and S98	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/06/05 11:59
S10 4	1268	electron with (emit\$5 emission) and (anode cathode electrode) same (heat\$3 pyroliz\$4 pyrolysis carbonized firing fired baked oven laser) and ((chemical Covalent Polar Ionic Aromatic ) with bond\$3) and (energize potential electrify)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/05 12:15
S10 5	1268	electron with (emit\$5 emission) and (anode cathode electrode) same (heat\$3 pyroliz\$4 pyrolysis carboniz\$4 firing fired baked oven laser) and ((chemical Covalent Polar Ionic Aromatic ) with bond\$3) and (energize potential electrify)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/06 11:42
S10 7	108	S105 and S102	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/05 12:15
S10 8	16	("20020117670"   "20030073371"   "20030160180"   "20030161942"   "20030162464"   "20030162465"   "20030162467"   "6053791"   "6123876"   "6179678"   "6221426"   "6246168"   "6334803"   "6383047"   "6503831"   "6566794").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 14:44

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S10 9	4196	electron with (emit\$5 emission) and (anode cathode electrode) same (heat\$3 pyroliz\$4 pyrolysis carboniz\$4 firing fired baked oven laser) and (((polymer\$2 aromatic polyphenylene (oxyadiazol vinylene)) or ((chemical Covalent Polar Ionic Aromatic atom\$3) with (coupl\$3 bond\$3)))) and (energize potential electrify)	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	ON	2006/06/06 13:50
S11 0	1270	electron with (emit\$5 emission) and (anode cathode electrode) same (heat\$3 pyroliz\$4 carbonized firing fired baked oven laser) and ((chemical Covalent Polar Ionic Aromatic ) with bond\$3) and (energize potential electrify)	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	ON	2006/06/06 13:45
S11 1	108	((313/493,495,496,497,310,311, 346.r) or (445/6,24,49,50,51)). CCLS.) and S110	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2006/06/06 13:45
S11 4	438	((313/493,495,496,497,310,311, 346.r) or (445/6,24,49,50,51)). CCLS.) and S109	US-PGPUB; OR USPAT; JPO; DERWENT	ON	2006/06/06 13:51
S11 5	6925	electron with (emit\$5 emission) and (anode cathode electrode) same (heat\$3 pyroliz\$4 pyrolysis carboniz\$4 firing fired baked oven laser) and (((polymer\$2 aromatic polyphenylene (oxyadiazol vinylene)) or ((chemical Covalent Polar Ionic Aromatic atom\$3) with (coupl\$3 bond\$3))))	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	ON	2006/06/06 14:25
S11 6	617	((313/493,495,496,497,310,311, 346.r) or (445/6,24,49,50,51)). CCLS.) and S115	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	ON	2006/06/06 13:51
S11 7	1726	((electron field) near3 (emit\$5 emission source emissive)) same (polymer\$2 resin) same (curing cured heat\$3 oven pyroliz\$4 pyrolysis carboniz\$4 firing fired bake? baking)	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	ON	2006/06/06 14:28
S11 8	5519	((445/24,25,49,50,51,6) (427/77)). ccls.	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	ON	2006/06/06 14:28

## EAST Search History

S11 9	88	S117 and S118	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	ON	2006/06/06 15:10
S12 0	10	S118 and pyrolytic adj polymer	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	ON	2006/06/06 15:10
S12 1	19	("20020081931"   "20030039767"   "20030073371"   "20030160180"   "20030161942"   "20030162464"   "20030162465"   "20030162467"   "5876260"   "6123876"   "6179678"   "6184610"   "6221426"   "6246168"   "6270389"   "6334803"   "6366015"   "6383047"   "6554946").PN.	US-PGPUB; OR USPAT; USOCR	ON	2006/06/06 15:20
S12 2	2	(("20020081931") or ("20020117670")).PN.	US-PGPUB; OR USPAT; USOCR	OFF	2006/06/06 15:20